

REMARKS

Reconsideration of the application, as presently amended, is respectfully requested. Claims 1-15 have been cancelled. New claims 16-28 have been added. No claims have been amended. Claims 16-28 are pending.

Claims 2, 5, 11, and 15 stand objected to because of various informalities. Applicant respectfully submits that the objections to these claims are rendered moot by Applicant's cancellation of claims 1-15.

Claims 1-15 stand rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent No. 6,131,013 to Bergstrom et al ("Bergstrom"). Applicant respectfully submits that the rejection of claims 1-15 as anticipated by Bergstrom has been rendered moot by Applicant's cancellation of claims 1-15.

Bergstrom is directed to a method and apparatus for performing targeted interference suppression. In Bergstrom, a receiver that is capable of performing targeted interference suppression utilizes an interference classifier to analyze a signal received from a channel and to identify and classify interference components within the signal. An interference suppressor suppresses the interference components in the signal based upon an interference type. The interference suppressor may include a plurality of interference-suppression modules for suppressing certain interference types. A hybrid interference mitigation system may also be used. The hybrid interference mitigation system combines targeted interference suppression, frequency-hopping adaptation, and processing gain adaptation.

Applicant respectfully submits that each of newly-added claims 16-28 distinguishes over Bergstrom. As noted above, in Bergstrom, the interference classifier analyzes a signal and identifies and classifies *interference components* within the signal. In contrast to Bergstrom, independent claim 16 recites an interference classifier adapted to classify a type of interference affecting communications quality by evaluating time-domain behavior of at least one of an AGC signal, a TPC command signal, an interference estimate signal, a signal representing a strength of a wireless communications signal, and a signal representing a signal-to-interference ratio. In similar fashion, independent claim 21 recites a step of classifying a type of interference affecting communications quality by evaluating a time-domain behavior of at least one of a gain signal, a

TPC command signal, an interference estimate signal, a signal representing a strength of a wireless communications signal, and a signal representing a signal-to-interference ratio. Given that none of the signals evaluated for purposes of interference classification in independent claims 16 and 21 are interference components of a signal, Applicant respectfully submits that each of independent claims 16 and 21 distinguishes over Bergstrom and is in condition for allowance.

Applicant has also added new independent claims 25 and 27 in response to the Office Action. In independent claim 25, an interference classifier is adapted to classify a type of interference affecting communications quality by evaluating time-domain behavior of at least one of at least one signal for at least one of adjusting, verifying, and demodulating a wireless communications signal. In similar fashion, in independent claim 27, a step is recited of classifying a type of interference affecting communications quality by evaluating a time-domain behavior of at least one of at least one signal for at least one of adjusting, verifying, and demodulating a wireless communications signal. Bergstrom's signal interference components are not for adjusting, verifying, or demodulating a wireless communications signal. Applicant respectfully submits that independent claims 25 and 27 also distinguish over Bergstrom and are in condition for allowance.

Each of the remaining pending claims depends from and further limits one of the independent claims. Applicant therefore respectfully submits that each of the currently-pending dependent claims also distinguishes over Bergstrom.

In view of the above, each of the presently-pending claims in this application is believed to be in immediate condition for allowance. Accordingly, the Examiner is respectfully requested to pass this application to issue.

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Respectfully submitted,

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